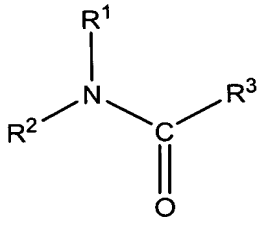
IN THE CLAIMS

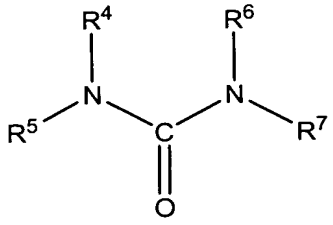
Please amend the claims as follows:

Claim 1 (Currently Amended): A catalyst for polymerizing α-olefin, comprising a combination of: a component (A) which is a solid catalyst component ~~containing~~ comprising magnesium, titanium, and a halogen as an essential component; a component (B) which is an organoaluminum compound; and a component (C) which is a compound ~~containing~~ comprising a C(=O)N bond.

Claim 2 (Currently Amended): The catalyst for polymerizing α-olefin ~~described~~ as claimed in Claim 1, wherein the compound ~~containing~~ comprising a C(=O)N bond of the component (C) is selected from compounds represented by the following general formula [1] or [2]:



[1]



[2]

wherein $R^1$ to $R^7$ each represent an aliphatic hydrocarbon group, an alicyclic hydrocarbon group, an aromatic hydrocarbon group, or a hetero atom-containing hydrocarbon group, which have one or more carbon atoms, and the arbitrary groups of $R^1$ to $R^3$ and the arbitrary groups of $R^4$ to $R^7$ may be combined to form a ring structure.

Claim 3 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 1, ~~described in Claim 1 or 2,~~ which further comprises in combination a component (D) which is a silicon compound, or a compound having at least two ether bonds.

Claim 4 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 1, ~~described in any one of Claims 1 to 3,~~ wherein the component (A) is obtained by bringing the following component (A1) and component (A2) in contact with each other:

Component (A1): a solid component ~~containing~~ comprising titanium, magnesium, and a halogen as an essential component; and

Component (A2): a silicon compound represented by the following formula:

$$R^8R^9_{3-m}Si(OR^{10})_m$$

wherein $R^8$ represents an aliphatic hydrocarbon group, an alicyclic hydrocarbon group, or a hetero atom-containing hydrocarbon group; $R^9$ represents an aliphatic hydrocarbon group, an alicyclic hydrocarbon group, a hetero atom-containing hydrocarbon group, a halogen, or hydrogen; $R^{10}$ represents a hydrocarbon group; and m is $1 \leq m \leq 3$.

Claim 5 (Currently Amended): The catalyst for polymerizing α-olefin ~~described~~ as claimed in Claim 4, wherein the component (A) is obtained by further bringing the following component (A3) in contact:

Component (A3): an organoaluminum compound.

Claim 6 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 1, ~~described in any one of Claims 1 to 3,~~ wherein the component (A) further comprises a component (E) which is an electron donor.

Claim 7 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 4, ~~described in Claim 4 or 5,~~ wherein the component (A1) further comprises a component (E) which is an electron donor.

Claim 8 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 3, ~~described in any one of Claims 3 to 7,~~ wherein the silicon compound of the component (D) is a silicon compound represented by the following formula:

$$R^8R^9_{3-m}Si(OR^{10})_m$$

wherein $R^8$ represents an aliphatic hydrocarbon group, an alicyclic hydrocarbon group, or a hetero atom-containing hydrocarbon group; $R^9$ represents an aliphatic hydrocarbon group, an alicyclic hydrocarbon group, a hetero atom-containing hydrocarbon group, a halogen, or hydrogen; $R^{10}$ represents a hydrocarbon group; and m is $1 \leq m \leq 3$.

Claim 9 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 3, ~~described in any one of Claims 3 to 8,~~ wherein the compound having at least two ether bonds of the component (D) is an aliphatic diether or an aromatic diether.

Claim 10 (Currently Amended): The catalyst for polymerizing α-olefin as claimed in Claim 6, ~~described in one of Claims 6 to 9,~~ wherein the electron donor of the component (E) is a phthalic acid diester compound, a cellosolve acetate ester compound, a phthalic acid dihalide compound, a succinic acid diester compound, or an aliphatic or an aromatic diether compound.

Claim 11 (Currently Amended): A production method for an α-olefin polymer, which comprises homopolymerizing or copolymerizing α-olefin with said catalyst as claimed in Claim 1. ~~using a catalyst for polymerizing α-olefin described in any one of Claims 1 to 10.~~